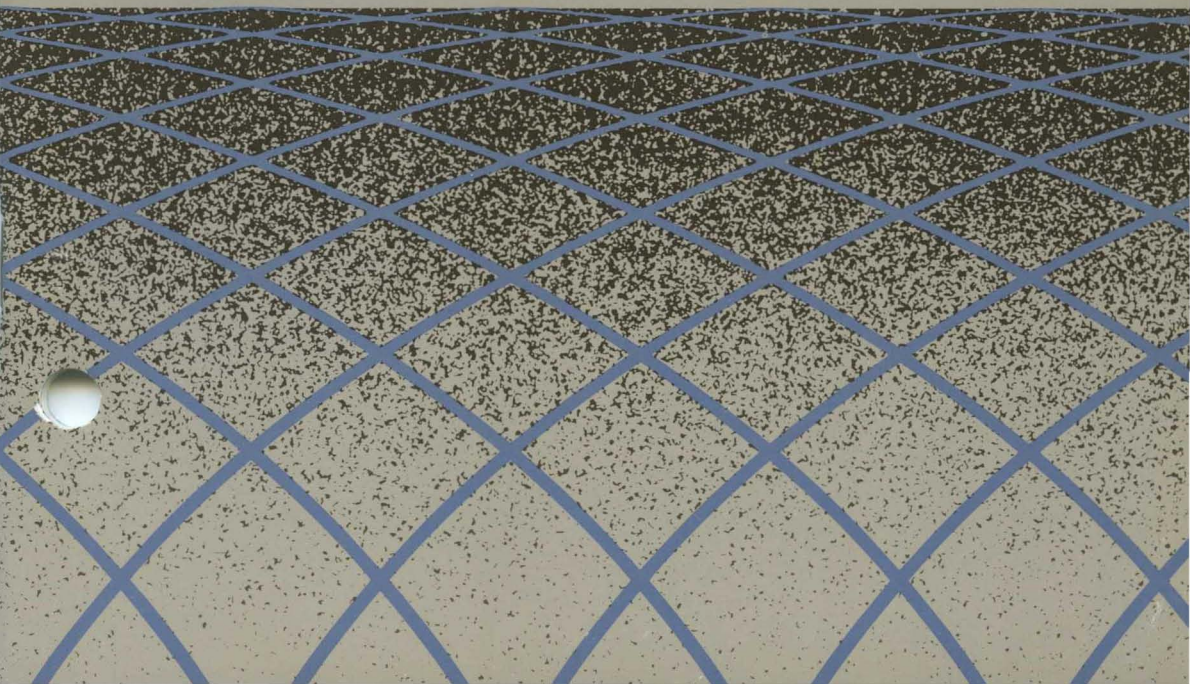




730X

Release Notes

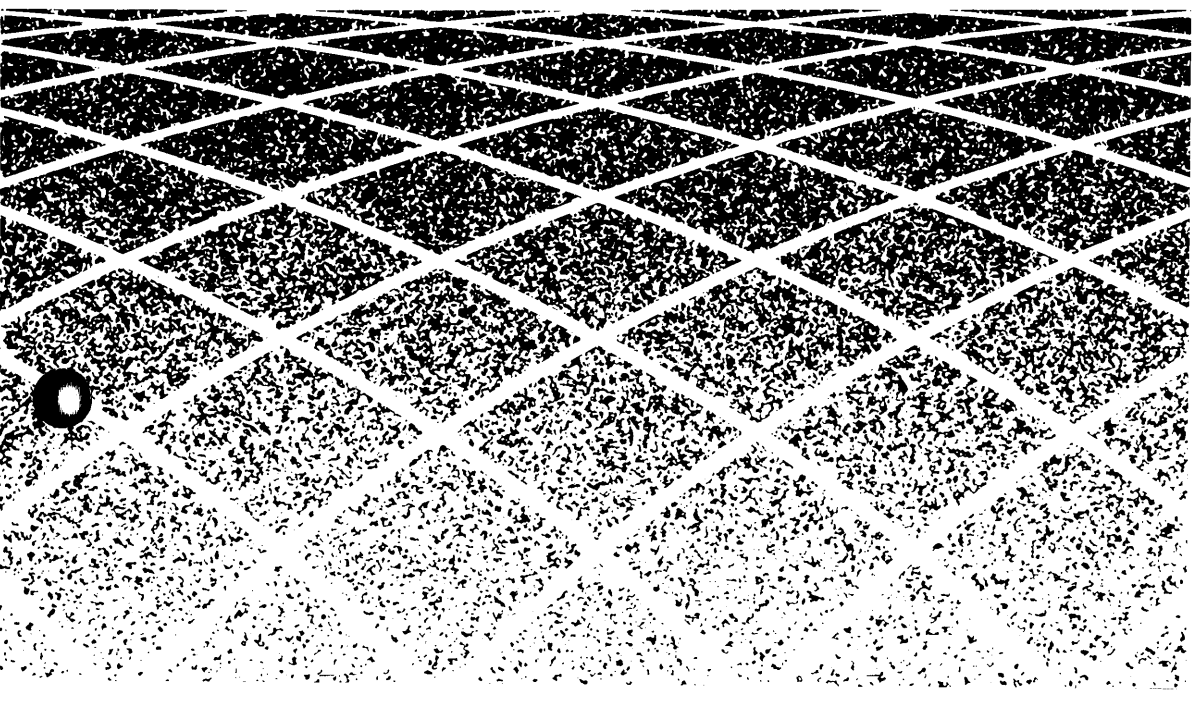




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730X

Release Notes



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This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

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This digital apparatus does not exceed the Class A limits for radio noise emissions set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

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Appendix A: File Listing for 730X Binary Host Package

**Appendix B: File Listing for 730X Source Host
Package**

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Overview

This 730X Release Notes provides important information about the operation of the 730X Server.

A file listing of the contents of the 730X Binary Host Package is provided in Appendix A.

A file listing of the contents of the 730X Source Host Package is provided in Appendix B.

Notes About X Clients

- When **<Caps Lock>** or **<Num Lock>** (or another modifier key) is pressed, X clients may ignore or interpret mouse button presses in unexpected ways. For example, if a client normally brings up a menu when mouse button 3 is pressed, it may not do so if the **<Caps Lock>** key is down.

To fix or avoid the problem, make sure that no modifier keys are unintentionally pressed when using mouse buttons. Some applications may allow you to reconfigure the application's interpretation of button presses.

- The **<Scroll Lock>** key will not behave in *xterm* the way it does in a 730 MTG wproc+ terminal emulator. **<CTRL-S>** and **<CTRL-Q>** can be used to suspend and restart printing on the screen, although there may be a delay while backed up characters are displayed.
- Rebooting the 730X Server with clients running will generate host error messages in the 730 MTG window from which the clients were run. These messages are normal in the X protocol and can be ignored.

OPEN LOOK

- Selecting exit from the OPEN LOOK¹ menu does not exit all clients. To exit OPEN LOOK completely, you must reboot the 730X Server.
- If you try to log out of the StarLAN window from which you are running *olwsm* using <CTRL-D>, the window will hang. If you reboot the 730X Server, you will get Remote Disconnect in the StarLAN window and it will no longer hang.
- You should not select the **Start OPEN LOOK at Login** feature of OPEN LOOK. In addition,

`OLINVOKE=no`

should be set in your `$HOME/.olsetup` file. You should start X clients on the 730X Server manually, from the OPEN LOOK programs menu, or in `.olinitrc`.

- If you run many clients (e.g. 60 xterm's) under OPEN LOOK, the terminal can hang if you select **exit** from the workspace manager menu. Reboot the 730X Server to exit OPEN LOOK.
- If you are running OPEN LOOK and run low on memory, OPEN LOOK may be terminated. This causes borders to be removed from OPEN LOOK windows and disables OPEN LOOK menus. To correct this problem, free some memory by exiting X clients and/or 730 MTG applications and then restart OPEN LOOK. If you receive an error while restarting OPEN LOOK, it may mean the workspace manager is still running but the window manager is not running. In this case, just execute

```
$ olwm &
```

in the background from a 730 MTG window.

¹ OPEN LOOK is a registered trademark of AT&T.

- When you start up OPEN LOOK on the 730X Server, you should not use *olinit*. You should execute

```
$ olwsm &
```

in the background from a 730 MTG window and have

```
olwm &
```

in your *.olinitrc* file.

- The 730X Server uses separate modifier mappings for its two <Alt> keys on the keyboard. The left <Alt> key should be used when OPEN LOOK requires an <Alt> modifier, such as in the "Mouse Settings Workspace Property" window.

XWIN

- Choosing the hangup option from the XWIN² 1.1 *xterm* menu kills all X clients. *Attwm* is killed but the *attwm* cursor and background stay on the 730X Server screen. Reboot the 730X Server when this happens.

² XWIN is a registered trademark of AT&T.

Executing Clients from Shell Scripts

- If you try to start many clients from a shell script, it is a good practice to place *sleep* commands between each invocation. If this is not done, one or more clients may fail to make the connection. For example,

```
client_1 &  
sleep 1  
client_2 &
```

xset

- The *xset* options do not affect the bell volume, pitch, or duration. To set the bell volume, use the 730 MTG Setup "Volume" option, which will also set the volume of the key click. The "Key Click" option turns key click on and off.

The 730 MTG "Mouse Hand" option affects mouse button usage in X.

StarLAN Option Settings

- The StarLAN option **Expected NAU Load** must be set to **heavy** for X to function properly. If it is set otherwise, heavy terminal operations may cause unpredictable results (e.g. the terminal will hang up).

Environment Swapping

- If there is no current window in the 730 MTG environment, pressing **<CTRL-SPACE>** many times will put you in the 730 MTG environment, and you will be unable to switch back to the 730X environment. To fix the problem, use the mouse to make any 730 MTG window current. This will enable environment swapping with **<CTRL-SPACE>**.

Removing the 730X Binary Host Package with FACE

- If you use the AT&T UNIX System V Framed Access Command Environment (FACE) facility to perform UNIX System administrative functions, please note the following problem. The 730X Binary Host Package cannot be removed using the FACE menu item "Remove Installed Software". If this is attempted, the message,

```
sh: T: not found
```

is displayed, and the bell will sound continuously until is pressed a couple times.

This problem can be avoided by executing *removepkg* in the UNIX System environment instead of selecting "Remove Installed Software" through the FACE menus (select the "UNIX System" item in the top-level FACE menu to enter the UNIX System).

PC Style - International Keyboard (102+1 Key Keyboard)

- When used with the 730X Server, the PC Style International Keyboard (102+1 key) operates the same as when it is used in the 730 MTG environment with the Language option set to **US**. Refer to the 730 MTG User's Guide for details.

If there are symbols on both the front and top (keytop) of a "typewriter" key, then the keyboard mapping uses the symbols indicated on the front of the key rather than the top. If there are no symbols on the front of the key and there are symbols on both the left and right of a keytop, then the leftmost symbols are used.

For example, the key above and to the left of the "Y" is mapped to "6" (unshifted), and "^" (shifted). The key above and to the right of the "Y" is mapped to "7" (unshifted) and "&" (shifted).

Special purpose X client applications can be written to interpret the keyboard in other ways. In particular, applications could be written to use the other symbols on the keytops. The key to the left of the "Z" is unused except by such special-purpose applications.

Fonts

Using OPEN LOOK 1.0 Fonts with the 730X Server

- To use the 730X Server with OPEN LOOK 1.0 fonts, execute `/usr/Xmtg/bin/mkfontdir` in the directory with the OPEN LOOK fonts to create a `fonts.dir` file. A `fonts.alias` file should be created, by hand, in that directory by putting the line "FILE_NAMES_ALIASES" in the file.

Compiling Fonts for the 730X Server

- When compiling fonts for the 730X Server, always use the `-s` option without any arguments. Use the `-t` option with all of the MIT X11R3 fonts except `term14.snf`, `termB14.snf`, `tech14.snf` and `techB14.snf`. For other fonts not supplied by MIT, the `-t` option may or may not be needed.

Mkfontdir Notes

- The `mkfontdir` utility should only be used with SNF format fonts that have been compiled for the 730X or XWIN Servers. Always place fonts of different formats in different directories.

Xadmin Default Values

- Xadmin fills in defaults the first time X is brought up on a terminal, but there is no way to explicitly reload the defaults. The default values are listed in Chapter 4 of the 730X User's Guide.

Known Problems When Using Simul-Task 2.0 with the 2.0.1 Update

The problems listed here occur on the 730X Server, but they may also occur in general when running Simul-Task³ on a remote server.

DOS Applications

- The Zoom feature in Simul-Task is not functional on remote terminals, including the 730X Server.
- Some DOS applications, particularly those that make assumptions about hardware, may not function properly under Simul-Task.
- When using Simul-Task, the DOS session will be killed if you hit the <DELETE> (or keypad) key while in the *xterm* window from which the DOS session was invoked, or when you resize the *xterm* window. It is a good idea to iconify the *xterm* window so that you don't unintentionally kill the DOS environment.
- In a Simul-Task DOS window, the <F14> key acts as the <Scroll Lock> key but does not light the Scroll Lock led.

Mouse

- The 730 MTG mouse is not functional with Simul-Task 2.0. DOS applications which use the mouse must be exercised with their equivalent keystrokes.

³ *Simul-Task* is a registered trademark of AT&T.

Graphics Display of Data

- When running DOS applications under Simul-Task on the monochrome 730X Server, colors are mapped to either black or white. This may result in unreadable screens on the 730X Server. The colors in the application should be set to black or white for use with the 730X Server.
- When displaying graphics on the 730X Server from Simul-Task, the DOS application video driver should be set to CGA (640x200). Setting the application's video driver to the AT&T mode (640x400) will cause graphics to be displayed incorrectly on the 730X Server.

Keyboard

- When running Simul-Task with OPEN LOOK or XWIN, <F1> brings up the OPEN LOOK or XWIN Help Function on the 730X Server instead of the operation intended by the DOS application (e.g. Cancel in WordPerfect). If <F1> is used by the DOS application, change the key that activates the OPEN LOOK Help Function to something else (e.g. <Shift-F12>) when working with Simul-Task. The help function key can be changed from the OPEN LOOK "Keyboard Settings Workspace Property" window.
- When using Simul-Task, do not press:
 - <PrtScr/F13/SysRq> while in a DOS window unless <Alt> is simultaneously pressed.
 - "*" on the keypad while <Shift> is simultaneously pressed when in a DOS window.

If you do, the "Simul-Task Warning Printer put error" will be displayed and you will need to kill the DOS process. This problem will occur when running Simul-Task on any remote X server.

730X Server Compatibility with the MIT X Window System Server

The 730X Server is compatible with the MIT X Window System⁴, Version 11 Release 3. However, not all X11R3 wide line and arc improvements are included, and access control is not supported. The backing store and save under optional features and the input synthesis extension are also not currently supported on the 730X Server.

⁴ *X Window System* is a trademark of Massachusetts Institute of Technology.

Appendix A: File Listing for 730X Binary Host Package

The 730X Binary Host Package software product contains the following files:

```
/usr/Xmtg/bin/bdftosnf
/usr/Xmtg/bin/mkfontdir
/usr/Xmtg/bin/showsnf
/usr/Xmtg/bin/rgb
/usr/Xmtg/lib/Xmtg
/usr/Xmtg/lib/startXmtg
/usr/Xmtg/lib/stopXmtg
/usr/Xmtg/lib/rgb.mtg.base
/usr/Xmtg/lib/rgb.mtg.txt
/usr/Xmtg/lib/fonts/misc/6x10.snf
/usr/Xmtg/lib/fonts/misc/6x12.snf
/usr/Xmtg/lib/fonts/misc/6x13.snf
/usr/Xmtg/lib/fonts/misc/8x13.snf
/usr/Xmtg/lib/fonts/misc/8x13bold.snf
/usr/Xmtg/lib/fonts/misc/9x15.snf
/usr/Xmtg/lib/fonts/misc/pc12x20.snf
/usr/Xmtg/lib/fonts/misc/fonts.alias
/usr/Xmtg/man/mann/bdftosnf.n
/usr/Xmtg/man/mann/showsnf.n
/usr/Xmtg/man/mann/mkfontdir.n
/usr/Xmtg/man/mann/rgb.n
```

The following file is built during installation:

```
/usr/Xmtg/lib/fonts/misc/fonts.dir
```

Appendix B: File Listing for 730X Source Host Package

The 730X Source Host Package software product contains the following files:

```
/usr/Xmtg/src/mtg/Imakefile
/usr/Xmtg/src/mtg/boot.sh
/usr/Xmtg/src/mtg/include/site.h
/usr/Xmtg/src/mtg/include/fontstruct.h
/usr/Xmtg/src/mtg/include/font.h
/usr/Xmtg/src/mtg/include/os.h
/usr/Xmtg/src/mtg/include/misc.h
/usr/Xmtg/src/mtg/include/servermd.h
/usr/Xmtg/src/mtg/include/rgb.h
/usr/Xmtg/src/mtg/include/snfstruct.h
/usr/Xmtg/src/mtg/include/fontdir.h
/usr/Xmtg/src/mtg/include/strings.h
/usr/Xmtg/src/mtg/include/X11/copyright.h
/usr/Xmtg/src/mtg/include/X11/Xlib.h
/usr/Xmtg/src/mtg/include/X11/X.h
/usr/Xmtg/src/mtg/include/X11/Xos.h
/usr/Xmtg/src/mtg/include/X11/Xmd.h
/usr/Xmtg/src/mtg/include/X11/Xproto.h
/usr/Xmtg/src/mtg/include/X11/Xprotostr.h
/usr/Xmtg/src/mtg/include/X11/keysymdef.h
/usr/Xmtg/src/mtg/include/sys/time.h
/usr/Xmtg/src/mtg/fonts/Imakefile
/usr/Xmtg/src/mtg/fonts/bdftosnf/Imakefile
/usr/Xmtg/src/mtg/fonts/bdftosnf/bdftosnf.c
/usr/Xmtg/src/mtg/fonts/bdftosnf/bdftosnf.h
/usr/Xmtg/src/mtg/fonts/bdftosnf/bdftosnf.man
/usr/Xmtg/src/mtg/fonts/bdftosnf/fontutil.c
/usr/Xmtg/src/mtg/fonts/bdftosnf/port.h
```

```
/usr/Xmtg/src/mtg/fonts/bdftosnf/showsnf.c
/usr/Xmtg/src/mtg/fonts/bdftosnf/showsnf.man
/usr/Xmtg/src/mtg/fonts/mkfontdir/Imakefile
/usr/Xmtg/src/mtg/fonts/mkfontdir/fontdir.c
/usr/Xmtg/src/mtg/fonts/mkfontdir/mkfontdir.c
/usr/Xmtg/src/mtg/fonts/mkfontdir/snf_util.c
/usr/Xmtg/src/mtg/fonts/mkfontdir/Lower.c
/usr/Xmtg/src/mtg/fonts/mkfontdir/mkfontdir.man
/usr/Xmtg/src/mtg/Xmtg/Imakefile
/usr/Xmtg/src/mtg/Xmtg/Xmtg.c
/usr/Xmtg/src/mtg/Xmtg/comm.h
/usr/Xmtg/src/mtg/Xmtg/startXmtg
/usr/Xmtg/src/mtg/Xmtg/stopXmtg
/usr/Xmtg/src/mtg/rgb/Imakefile
/usr/Xmtg/src/mtg/rgb/rgb.c
/usr/Xmtg/src/mtg/rgb/rgb.mtg.txt
/usr/Xmtg/src/mtg/rgb/rgb.man
/usr/Xmtg/src/mtg/util/Imakefile
/usr/Xmtg/src/mtg/util/imake/Imakefile
/usr/Xmtg/src/mtg/util/imake/atsign.c
/usr/Xmtg/src/mtg/util/imake/imake.sh
/usr/Xmtg/src/mtg/util/imake.includes/Imake.rules
/usr/Xmtg/src/mtg/util/imake.includes/Imake.tmpl
/usr/Xmtg/src/mtg/util/imake.includes/a386.macros
/usr/Xmtg/src/mtg/util/imake.includes/a3b2.macros
/usr/Xmtg/src/mtg/util/makedepend/makedepend.sh
/usr/Xmtg/lib/fonts/misc/cursor.snf
/usr/Xmtg/lib/fonts/misc/6x10.snf
/usr/Xmtg/lib/fonts/misc/6x12.snf
/usr/Xmtg/lib/fonts/misc/6x13.snf
/usr/Xmtg/lib/fonts/misc/8x13.snf
/usr/Xmtg/lib/fonts/misc/8x13bold.snf
/usr/Xmtg/lib/fonts/misc/9x15.snf
/usr/Xmtg/lib/fonts/misc/fonts.dir
/usr/Xmtg/lib/fonts/misc/fonts.alias
/usr/Xmtg/lib/fonts/misc/pc12x20.snf
/usr/Xmtg/lib/fonts/100dpi/charB08.snf
/usr/Xmtg/lib/fonts/100dpi/charB10.snf
/usr/Xmtg/lib/fonts/100dpi/charB12.snf
```

```
/usr/Xmtg/lib/fonts/100dpi/charB14.snf
/usr/Xmtg/lib/fonts/100dpi/charB18.snf
/usr/Xmtg/lib/fonts/100dpi/charB24.snf
/usr/Xmtg/lib/fonts/100dpi/charBI08.snf
/usr/Xmtg/lib/fonts/100dpi/charBI10.snf
/usr/Xmtg/lib/fonts/100dpi/charBI12.snf
/usr/Xmtg/lib/fonts/100dpi/charBI14.snf
/usr/Xmtg/lib/fonts/100dpi/charBI18.snf
/usr/Xmtg/lib/fonts/100dpi/charBI24.snf
/usr/Xmtg/lib/fonts/100dpi/charI08.snf
/usr/Xmtg/lib/fonts/100dpi/charI10.snf
/usr/Xmtg/lib/fonts/100dpi/charI12.snf
/usr/Xmtg/lib/fonts/100dpi/charI14.snf
/usr/Xmtg/lib/fonts/100dpi/charI18.snf
/usr/Xmtg/lib/fonts/100dpi/charI24.snf
/usr/Xmtg/lib/fonts/100dpi/charR08.snf
/usr/Xmtg/lib/fonts/100dpi/charR10.snf
/usr/Xmtg/lib/fonts/100dpi/charR12.snf
/usr/Xmtg/lib/fonts/100dpi/charR14.snf
/usr/Xmtg/lib/fonts/100dpi/charR18.snf
/usr/Xmtg/lib/fonts/100dpi/charR24.snf
/usr/Xmtg/lib/fonts/100dpi/courB08.snf
/usr/Xmtg/lib/fonts/100dpi/courB10.snf
/usr/Xmtg/lib/fonts/100dpi/courB12.snf
/usr/Xmtg/lib/fonts/100dpi/courB14.snf
/usr/Xmtg/lib/fonts/100dpi/courB18.snf
/usr/Xmtg/lib/fonts/100dpi/courB24.snf
/usr/Xmtg/lib/fonts/100dpi/courBO08.snf
/usr/Xmtg/lib/fonts/100dpi/courBO10.snf
/usr/Xmtg/lib/fonts/100dpi/courBO12.snf
/usr/Xmtg/lib/fonts/100dpi/courBO14.snf
/usr/Xmtg/lib/fonts/100dpi/courBO18.snf
/usr/Xmtg/lib/fonts/100dpi/courBO24.snf
/usr/Xmtg/lib/fonts/100dpi/courO08.snf
/usr/Xmtg/lib/fonts/100dpi/courO10.snf
/usr/Xmtg/lib/fonts/100dpi/courO12.snf
/usr/Xmtg/lib/fonts/100dpi/courO14.snf
/usr/Xmtg/lib/fonts/100dpi/courO18.snf
/usr/Xmtg/lib/fonts/100dpi/courO24.snf
```

/usr/Xmtg/lib/fonts/100dpi/courR08.snf
/usr/Xmtg/lib/fonts/100dpi/courR10.snf
/usr/Xmtg/lib/fonts/100dpi/courR12.snf
/usr/Xmtg/lib/fonts/100dpi/courR14.snf
/usr/Xmtg/lib/fonts/100dpi/courR18.snf
/usr/Xmtg/lib/fonts/100dpi/courR24.snf
/usr/Xmtg/lib/fonts/100dpi/helvB08.snf
/usr/Xmtg/lib/fonts/100dpi/helvB10.snf
/usr/Xmtg/lib/fonts/100dpi/helvB12.snf
/usr/Xmtg/lib/fonts/100dpi/helvB14.snf
/usr/Xmtg/lib/fonts/100dpi/helvB18.snf
/usr/Xmtg/lib/fonts/100dpi/helvB24.snf
/usr/Xmtg/lib/fonts/100dpi/helvBO08.snf
/usr/Xmtg/lib/fonts/100dpi/helvBO10.snf
/usr/Xmtg/lib/fonts/100dpi/helvBO12.snf
/usr/Xmtg/lib/fonts/100dpi/helvBO14.snf
/usr/Xmtg/lib/fonts/100dpi/helvBO18.snf
/usr/Xmtg/lib/fonts/100dpi/helvBO24.snf
/usr/Xmtg/lib/fonts/100dpi/helvO08.snf
/usr/Xmtg/lib/fonts/100dpi/helvO10.snf
/usr/Xmtg/lib/fonts/100dpi/helvO12.snf
/usr/Xmtg/lib/fonts/100dpi/helvO14.snf
/usr/Xmtg/lib/fonts/100dpi/helvO18.snf
/usr/Xmtg/lib/fonts/100dpi/helvO24.snf
/usr/Xmtg/lib/fonts/100dpi/helvR08.snf
/usr/Xmtg/lib/fonts/100dpi/helvR10.snf
/usr/Xmtg/lib/fonts/100dpi/helvR12.snf
/usr/Xmtg/lib/fonts/100dpi/helvR14.snf
/usr/Xmtg/lib/fonts/100dpi/helvR18.snf
/usr/Xmtg/lib/fonts/100dpi/helvR24.snf
/usr/Xmtg/lib/fonts/100dpi/ncenB08.snf
/usr/Xmtg/lib/fonts/100dpi/ncenB10.snf
/usr/Xmtg/lib/fonts/100dpi/ncenB12.snf
/usr/Xmtg/lib/fonts/100dpi/ncenB14.snf
/usr/Xmtg/lib/fonts/100dpi/ncenB18.snf
/usr/Xmtg/lib/fonts/100dpi/ncenB24.snf
/usr/Xmtg/lib/fonts/100dpi/ncenBI08.snf
/usr/Xmtg/lib/fonts/100dpi/ncenBI10.snf
/usr/Xmtg/lib/fonts/100dpi/ncenBI12.snf

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/usr/Xmtg/lib/fonts/100dpi/ncenR08.snf
/usr/Xmtg/lib/fonts/100dpi/ncenR10.snf
/usr/Xmtg/lib/fonts/100dpi/ncenR12.snf
/usr/Xmtg/lib/fonts/100dpi/ncenR14.snf
/usr/Xmtg/lib/fonts/100dpi/ncenR18.snf
/usr/Xmtg/lib/fonts/100dpi/ncenR24.snf
/usr/Xmtg/lib/fonts/100dpi/symb08.snf
/usr/Xmtg/lib/fonts/100dpi/symb10.snf
/usr/Xmtg/lib/fonts/100dpi/symb12.snf
/usr/Xmtg/lib/fonts/100dpi/symb14.snf
/usr/Xmtg/lib/fonts/100dpi/symb18.snf
/usr/Xmtg/lib/fonts/100dpi/symb24.snf
/usr/Xmtg/lib/fonts/100dpi/tech14.snf
/usr/Xmtg/lib/fonts/100dpi/techB14.snf
/usr/Xmtg/lib/fonts/100dpi/term14.snf
/usr/Xmtg/lib/fonts/100dpi/termB14.snf
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/usr/Xmtg/lib/fonts/100dpi/timB10.snf
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